


Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 11-30-93

(A)		United States Environmental Protection Agency Office of Pesticide Programs (H7505C) Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number <div style="font-size: 24pt; text-align: center;">201991</div>
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Section I

1. Company/Product Number Sandoz Agro/55947-82	2. EPA Product Manager P. Hutton	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Sandoz Agro/ENSTAR 5E	PM# 18	
5. Name and Address of Applicant (Include ZIP Code) Sandoz Agro, Inc. 1300 East Touhy Avenue Des Plaines, IL 60018 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section II

<input type="checkbox"/> Amendment - Explain below <input type="checkbox"/> Resubmission in response to Agency letter dated _____ <input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____ <input type="checkbox"/> "Me Too" Application. <input type="checkbox"/> Other - explain below.
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Explanation: Use additional page(s) if necessary. (For section I and Section II.)

NOTIFICATION PER PR NOTICE 88-6

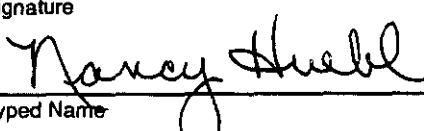
This is to certify that this notification meets every requirement of PR Notice 88-6.

- 1) New establishment number.
- 2) Deletion of vegetable seed crop text.

Section III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted. If "Yes," Unit Package wgt. No. per container		If "Yes," Package wgt. No. per container			
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) of Retail Container 1 pint		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner In Which Label Is Affixed To Product <input checked="" type="checkbox"/> Lithograph <input checked="" type="checkbox"/> Paper glued <input checked="" type="checkbox"/> Stenciled				<input type="checkbox"/> Other (_____)	

Section IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Nancy Huebl	Title Registration Specialist	Telephone No. (Include Area Code) 708/390-3823
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Registration Specialist	
4. Typed Name Nancy Huebl	5. Date April 26, 1994	

ENSTAR® 5E INSECT GROWTH REGULATOR

For Control of Whiteflies, Aphids,
Soft and Armored Scales, Mealybugs and
Fungus Gnats in Greenhouses and Interior Scapes
on Ornamental Plants

ACTIVE INGREDIENT

Kinoprene [2-propynyl (E,E)-3,7,11-trimethyl-2,4-dodecadienoate]*	65.3%
INERT INGREDIENTS	<u>34.7%</u>
	Total	100.0%

Contains 0.625 lb. active ingredient per pint

ENSTAR® is a registered trademark of Sandoz Ltd., *U.S. Patent 4021461

EPA Reg. No. 55947-82
Net Contents

EPA Est. No. **2724-TX-1**

KEEP OUT OF REACH OF CHILDREN CAUTION

See Side Panel For Additional Precautionary Statements

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Sandoz Agro, Inc.
Des Plaines, IL 60018

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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS CAUTION

Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes or clothing. In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists. Wash thoroughly after handling. Do not store near or contaminate food or feedstuffs.

Personal Protective Equipment:

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category F on an EPA chemical resistance category section chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as Barrier laminate, Butyl rubber, Nitrile rubber, or Viton
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

DIRECTIONS FOR USE GENERAL CLASSIFICATION

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves, such as Barrier laminate, Butyl rubber, Nitrile rubber, or Viton
- Shoes plus socks

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Container Disposal:

Triple rinse (or equivalent), then dispose of in a sanitary landfill or by other approved state and local procedures.

Pesticide Disposal:

Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of according to federal, state or local procedures.

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INSTRUCTIONS FOR USE

1. Partially fill spray tank with water, then add recommended amount of ENSTAR® 5E, agitate and complete filling.
2. Diluted spray solution should be used within twenty-four (24) hours; always agitate before using.

RECOMMENDED GREENHOUSE APPLICATIONS RATES OF APPLICATION

Preventative Program: Before insect populations reach damaging levels, mix ENSTAR® 5E at the rate of 6-10 ounces per 100 gallons of water (1 tsp./2 gal.) and apply to runoff every two (2) weeks.

Curative Program: For an existing population of adult insects, make two (2) applications seven (7) days apart of ENSTAR® 5E to runoff at a rate of 20 ounces per 100 gallons of water (1 tsp./gal.). Two (2) weeks later, begin the Preventative Program.

For Root (Ground) Mealybug and Fungus Gnat Control: When infestations of root mealybugs and fungus gnats are observed, the entire pot containing the infested plant should be drenched by submersion in a solution of ENSTAR® 5E at a rate of one (1) ounce per five (5) gallons of water. Submersion should continue until no more air bubbles are seen escaping from the fluid surface. This insures that the root system is saturated and the container is thoroughly treated. Repeat as necessary.

METHODS OF APPLICATION

Do not apply ENSTAR® 5E through any type of irrigation system.

Complete coverage of foliage is essential for control of whiteflies, aphids, mealybugs, fungus gnats and scales. For conventional spray equipment, mix the recommended amount of ENSTAR® 5E and water and spray both top and bottom surfaces of leaves until runoff. For other applications, follow the equipment manufacturer's specifications.

ENSTAR® 5E is compatible with other commonly used insecticides and miticides, such as PENTAC AQUAFLOW® and MAVRIK AQUAFLOW®. Before mixing in spray tank however; it is advisable to test physical compatibility by mixing all components in a small container in proportionate quantities. Read and follow all precautionary statements and label directions on tank mix products.

EFFECTS ON GREENHOUSE PLANTS

Slight to moderate injury has occasionally been noted on blooms under certain conditions. For insect control, it is suggested that applications be made in the pre-bloom stage. Before making large-scale application to any crop, a grower should test spray small numbers of plants to determine plant safety under his own cultural conditions.

Applications of ENSTAR® 5E have been made to greenhouse plants (azalea, chrysanthemum, dianthus, fuchsia, geranium, hydrangea, marigold, pelargonium, petunia, snapdragon) without adverse effects.

Application of ENSTAR® 5E to poinsettia has produced bract damage of most varieties and foliar damage of some varieties. Some varieties of roses, such as yellow blooded roses, show delayed damage.

LIMITATION OF WARRANTY AND LIMITATION OF LIABILITY

NOTICE: Read this Limitation of Warranty and Limitation of Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Sandoz or seller. All such risks shall be assumed by buyer or user. Sandoz warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, under normal use conditions, subject to the risks described above. Sandoz makes no other express or implied warranty of fitness or of merchantability or any other express or implied warranty. In no event shall Sandoz or seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. The exclusive remedy of the user or buyer, and the exclusive liability of Sandoz or seller for any and all claims, losses, injuries or damages (including claims based on breach of warranty, contract, negligence, tort, strict liability or otherwise) resulting from the use or handling of this product, shall be the return of the purchase price of the product or, at the election of Sandoz or seller, the replacement of the product. Sandoz and seller offer this product, and buyer and user accept it, subject to the foregoing limitations of warranty and limitation of liability, which may not be modified by any oral or written agreement.